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Fig.1A.

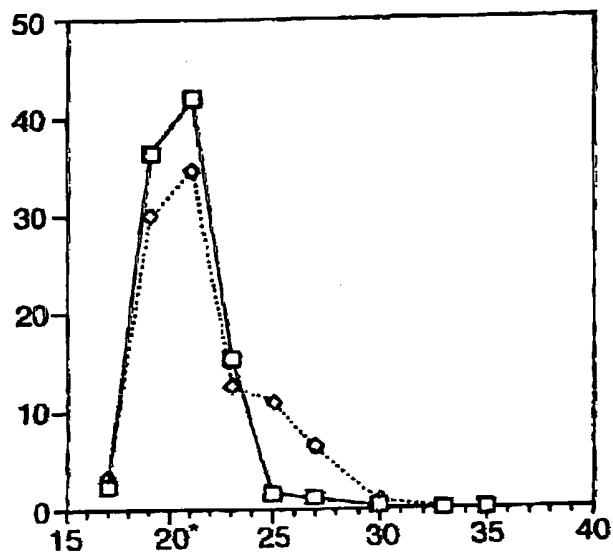
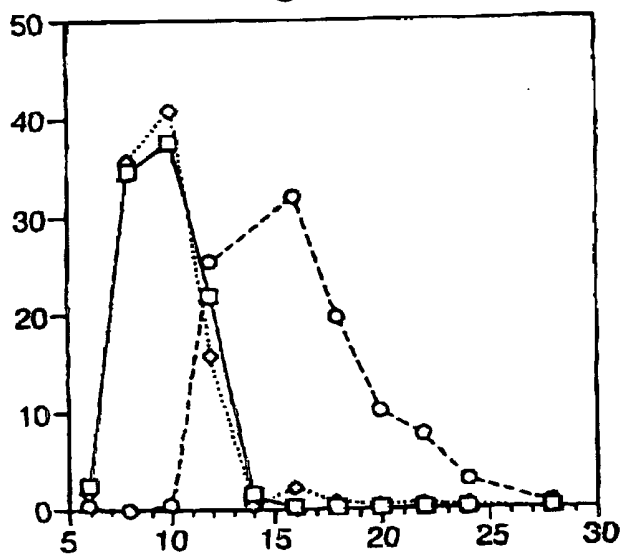


Fig.1B.



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Figure 2

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Fig.3A.

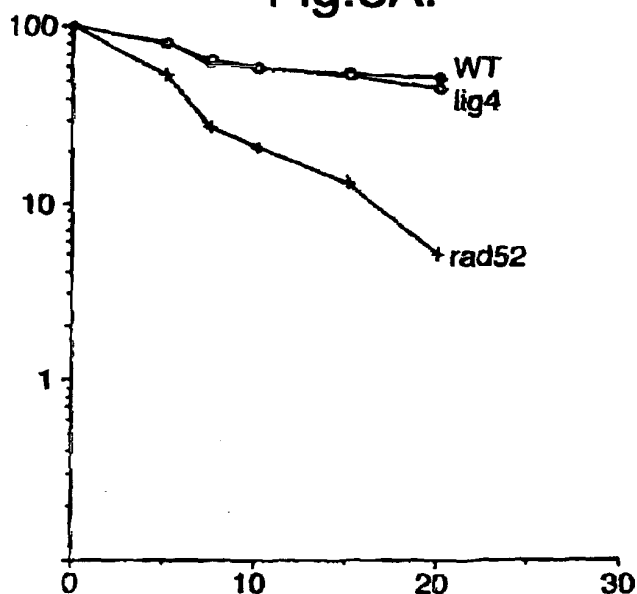
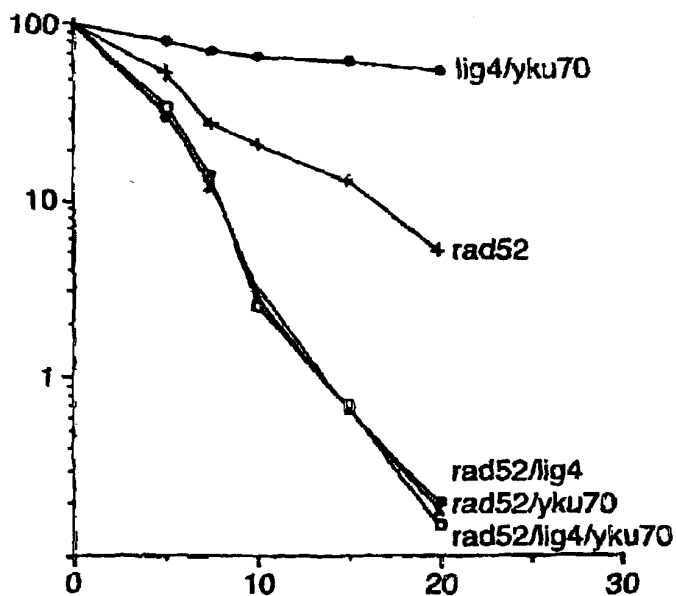


Fig.3B.



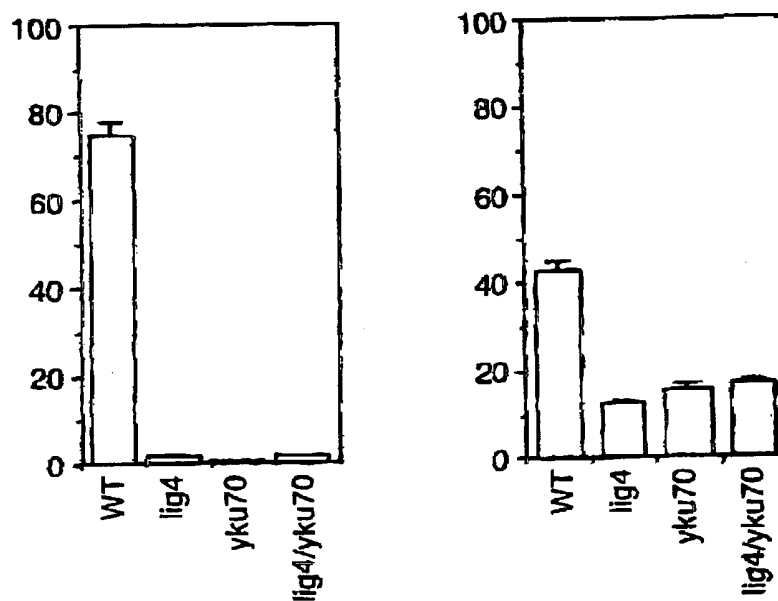
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Fig.4.

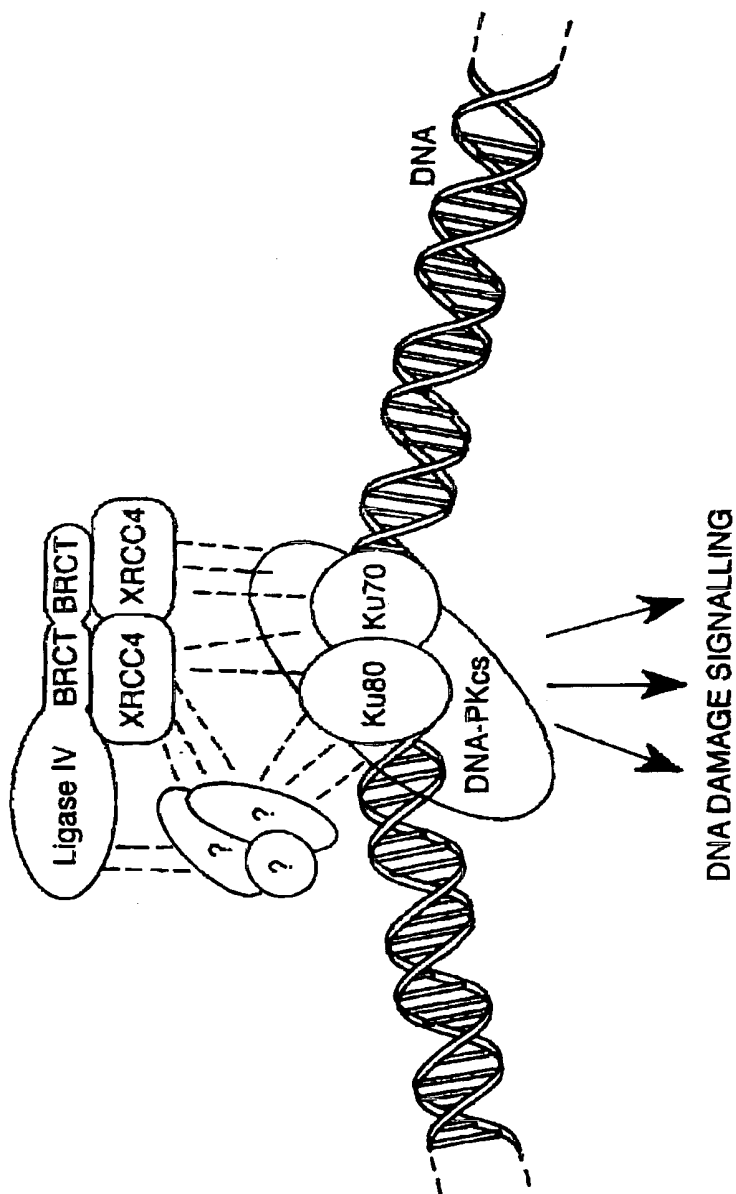


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Fig.5.



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Figure 6

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Figure 6 (Continued)

GATTATGTTTAAATAAGAATACTATATGCCTCTTAACCTTGAGGTGGCAAATAATTCGCAACA
601 -----+-----+-----+-----+-----+-----+-----+-----> 660
CTAATACATAATTATTCTTGATATACGAGAATGAACCTCAACGGTTTTTTTAAGACGTTOT

D Y V L I R T I C S Y L K L P K N S A T -

GAGCAGOGGTTAAAAGATTGGAAACAGCGTGTCCGTAAAGGTGGGAATCTTTCTCTCTTT
661 -----+-----+-----+-----+-----+-----+-----+-----> 720
CTCGTCCGCCAATTTTCTAACCTTTGTGGCACAGCCATTTCCACCCTTAGAAAGAAGAGAA

E Q R L K D W K Q R V G K G G N L S S L -

CTTGTTGGAAGAAATTGCTAAAAAGAAGGGCTGAAOCTAGCTCAAAAGCGATTACAAITGAT
721 -----+-----+-----+-----+-----+-----+-----+-----> 780
GAACACCTFCTTTTAACGATTTTCTTCCCGACTTGATOGAGTTTTTOGCTAATGTTAACTA

L V E E I A K R R A E P S S K A I T I D -

AAOGTCAATCACTATCTGGATAGTTTIGAGTGGAGACAGGTTGCGCTTCOGGAOGAGGATTT
781 -----+-----+-----+-----+-----+-----+-----+-----> 840
TTGCAGTTAGTGATAGACCTATCAAACCTCACCTCTGTCCAAGCGAAGGCGCTCTCTCTAAA

N V N H Y L D S L S G D R F A S G R G F -

AAGAGTCTTGTCAAGTCCAAACCTTTCTCTGCACCTGTGTGGAGAATATGAGTTTCTGTGAA
841 -----+-----+-----+-----+-----+-----+-----+-----> 900
TTCTCAGAACATTTCAAGTTTGGAAAGGACGTGACACACCTCTTATACTCAAAGCAGCTT

K S L V K S K P F L E C V E N M S F V E -

TTAAATACTTCTTTGATATCGTGCCTAAAAATAGAGTAATAGGAGGTCAAGAGCACAAA
901 -----+-----+-----+-----+-----+-----+-----+-----> 960
AATTTTATGAAGAACTATAGCAAGAATTTTATCTCATTTATCTCTCCAGTTCTCGTGTTT

L K Y F F D I V L K N R V I G G Q E H K -

TTGCTAAACTGCTGGCATCTCTGATGCTCAGCATTATCTTAGGGTGATATCTGATTTAAAG
961 -----+-----+-----+-----+-----+-----+-----+-----> 1020
AAGGATTTGAAGACGGTAGGACTAAGAGTCTAATAGAATGGCACTATAGACTAAATTTT

L L N C W H P D A Q D Y L S V I S D L K -

GTGGTAACTTCAAACTTTATGATOCAAAAGTTCTGCTTAAAGGATGATGATTGAGTATA
1021 -----+-----+-----+-----+-----+-----+-----+-----> 1080
CACCATTGAAGTTTTGAATACTAGGTTTTCAAGCAGATTTCTTACTACTAAACTCATAT

V V T S K L Y D P K V R L K D D D L S I -

AAAGTTGGCTTTGCATTCGCCCCCAATTAGCCAAAAAGTGAATCTTTCTTATGAGAAA
1081 -----+-----+-----+-----+-----+-----+-----+-----> 1140
TTTCAACCGAAAGCTAAGCGGGGGTTAATCGGTTTTTTTCACTTAGAAAGAACTACTCTTT

K V G F A F A P Q L A K K V N L S Y E K -

ATATGCOGTACACTACATGATGATTTTTTGTGTAGAAGAAAAATGGATGGAGAACGAATT
1141 -----+-----+-----+-----+-----+-----+-----+-----> 1200
TATACGGCATGTGATGTACTACTAAAAAACCATCTCTTTTTTTTACCTAOCCTCTTGCTTAA

E C R T L H D D P L V E E K M D G E R I -

CAAGTTCATTATATGAATTATGGTGAATCCATAAAATTTTTTAGTAGACGGGCATGAC
1201 -----+-----+-----+-----+-----+-----+-----+-----> 1260
GTTCAGTAATATACTTAAATACCCTTAGGTATTTTAAAAAATCATCTGCCCCGTAGCTG

Q V H Y M N Y G E S I K F F S R R G I D -

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Figure 6 (Continued)

1261 TATACCTATTTGTACGGAGCGAGCTTATCATCAGGAACATATCTCAACATTTGAGGTTT 1320
-----+-----+-----+-----+-----+-----+-----+-----+
ATATGGATAAACATGCTCGCTCGAATAGTAGTCCTTGATATAGAGTTGTAAACTCCAA
Y T Y L Y G A S L S S G T I S Q H L R F -
1321 ACAGATAGTGTAAAGAATGTGTTTGTAGATGGAGAAATGGTGACGTTTGATGCAAAAAGA 1380
-----+-----+-----+-----+-----+-----+-----+-----+
TGCTATACAAATTTCTTACACAAAATCTACCTCTTTACCCTGCAAACTACGTTTCT
T D S V K E C V L D G E M V T F D A K R -
1381 CGGGTGATTCTTCATTTCGCTCTTGTAAAGGAAGTGCAAGGAAGCGCTATCTTTTAAAT 1440
-----+-----+-----+-----+-----+-----+-----+-----+
GCCACTAAGAAGGTAAAGCCAGAACATTTCTTCAAGTTTCTTCGGGATAGAAAATTA
R V I L P F G L V K G S A K E A L S F N -
1441 AGTATAAATAATGTTGACTTTCACCCCTTATATATGGTGTGATCTGTATACCTGAAT 1500
-----+-----+-----+-----+-----+-----+-----+-----+
TCATATTTTATACAACTGAAAGTGGGGAATATATACCACAACTAGACAAATATGGACTTA
S I N N V D F H P L Y M V F D L L Y L N -
1501 GGGACTTGTGTGACACCAATTCACCCCTTCATCAAAGGAAGCAATATCTGAACAGCATTTTA 1560
-----+-----+-----+-----+-----+-----+-----+-----+
CCCTGAAGCAACTGTGGTAAATGGGGAAGTAGTTTCTTCTGTTATAGACTTGTGTTAAAT
G T S L T P L P L H Q R K Q Y L N S I L -
1561 AGTCCCTTGAAAAATATTGTAGAAATAGTAGATCTTCTAGATGTTATGGTGTGGAGTCA 1620
-----+-----+-----+-----+-----+-----+-----+-----+
TCAGGGAACCTTTTATACATCTTTATCATGCTAGAAGATCTACAATACCACACCTCAGT
S P L K N I V E I V R S S R C Y G V E S -
1621 ATCAAAAAGTCTTTAGAAAGTTCGAATCTCACTGGGTTGAGAGGAGTTGTTTGAATAT 1680
-----+-----+-----+-----+-----+-----+-----+-----+
TAGTTTTTTCAGAAATCTTCAAGTTAGAGTGACCAAGTCTTCTCAACAAACTTTATA
I K K S L E V A I S L G S E G V V L K Y -
1681 TATAATTCAGTTATAATGTGGCAGTCGAAACAACAACCTGGATCAAGGTAAAACTGAA 1740
-----+-----+-----+-----+-----+-----+-----+-----+
ATATTAGTTCAAATATTACAGGGTCAGCTTTGTGTGTGACCTAGTTCCATTTGGACTT
Y N S S Y N V A S R N N N W I K V K P E -
1741 TATTGGAGGAATTTGGAGAGAATTTAGACTTAATAGTAATAGGCAGAGATTCTGGGAA 1800
-----+-----+-----+-----+-----+-----+-----+-----+
ATAAACCTCTTAAACCTCTCTTAAATCTGAATTATCATTTATCGTCTCTAAGACCCCTT
Y L E E F G E N L D L I V I G R D S G K -
1801 AAAGATTCTTTTATGCTAGGGTTACTTGTGCTAGATGAAGAGAGTATAAAAAGCACCAA 1860
-----+-----+-----+-----+-----+-----+-----+-----+
TTTCTAAGAAAATACGATCCCAATGAACACGATCTACTTCTCTCATATTTTGTGCTT
K D S F M L G L L V L D E E E Y K K H Q -
1861 GGAGACTCTCTGAATTTGTAGACCACTCAAGCCAGAAAAACACATACAAAATTCAGA 1920
-----+-----+-----+-----+-----+-----+-----+-----+
CCTCTGAGGAGACTTTAACATCTGGTGAGTTGGGTTCTTTTGTGTATGTTTAAAGTTCT
G D S S E I V D H S S Q E K H I Q N S R -
AGAAGGCTGAAAAAATACTTTCTATTCTGTTCTATCCAAACCGTATATCTCAAGAGAA

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Figure 6 (Continued)

1921-----+-----+-----+-----+-----+ 1980
TCTTCCCACTTTTTTTATGAAAGTAAGACAAGATAGCGTTTGCCATATAGAGTTCTTCTT
R R V K K I L S F C S I A N G I S Q E E -
TTCAAAGAAATCGACCGCAAAACGAGAGGACATTGGAAAAGAACCTCGAAGTTGCTCCC
1981-----+-----+-----+-----+-----+ 2040
AAGTTTCTTTAGCTGGCGTTTTCCTCTCCCTGTAACCTTTTCTTGGAGGCTTCAACGAGGG
F K E I D R K T R G H W K R T S E V A P -
CCTGCTTCAATTTTGAATTTGGCTCAAAAATACCTGCCGAATGGATTGACCCCACTGAA
2041-----+-----+-----+-----+-----+ 2100
GGACGAAGTTAAATCTTAAACCGAGTTTATGGAAGGCTTACCTAACTGGGGTCACTT
P A S I L E F G S K I P A E W I D P S E -
TCAATTTGTTCTAGAAATAAAATCACGGTCTTTGGATAACACAGAAACGAATATGCAGAAG
2101-----+-----+-----+-----+-----+ 2160
AGTTAACAAGATCTTTATTTAGTGCCAGAAACCTATTGTGTCTTTGCTTATACGTTCT
S I V L E I K S R S L D N T E T N M Q K -
TAGGCTACCAATTTGTACTTTGTACGGTGGCTATTGTAAAAGAAATACGGTACGATAAAGAA
2161-----+-----+-----+-----+-----+ 2220
ATGGGATGGTTAACATGAACATGCCACCGATAACATTTTCTTATGCCATGCTATTTCTT
Y A T N C T L Y G G Y C K R I R Y D K E -
TGGACAGATTGTTACACACTTAAAGACTTATAAGAAAGTAGGACGGTTAAATCTAACCCC
2221-----+-----+-----+-----+-----+ 2280
ACCTGTCTAACATTTGTGAATTTGCTGAATATGCTTTCATCTCTGCCAATTTAGATTGGGG
W T D C Y T L N D L Y E S R T V K S N P -
AGCTATCAAGCGGAAGGTCACAGCTTGGATTGATAAGGAAAAGAGAAAGAGAGTACTT
2281-----+-----+-----+-----+-----+ 2340
TGGATAGTTGGCCTTTCCAGTGTGAACCTAATGCTTTTCTCTTTCTCTCATGAA
S Y Q A E R S Q L G L I R K K R K R V L -
ATTTCAAGACAGCTTTCAACAAAACAGGAAACAACTGCCAATTTCAAACATCTTTGCCGGA
2341-----+-----+-----+-----+-----+ 2400
TAAAGTCTGTGAAAGTGGTTTGTCTTTGTGTGACGGTTAAAGTTTGTAGAAACGGGCT
I S D S F H Q N R K Q L P I S N I F A G -
TTACTTTTATGTTCTCTCTGACTATGTCAAGGAGGACACTGGAATACGGATTACAGG
2401-----+-----+-----+-----+-----+ 2460
AATGAAAAAATACAAGAGAGACTGATACAGTCCCTCTGTGAACCTTATGCCAATGTGCC
L L F Y V L S D Y V T E D T G I R I T R -
GCAGAACTTGAAAAAACTATTGTGGAACATGGTGGTAAACTGATATATAATGTAATTTTA
2461-----+-----+-----+-----+-----+ 2520
CGTCTTGAACCTTTTGTGATAACACCTTGTACCAACCTTTGACTATATATTACATTAAAT
A E L E K T I V E H G G K L I Y N V I L -
AAACGTCATTCAATTTGGGGAAGTTGGTTAATCAGCTGTAAACTACCACGGAATGCAAG
2521-----+-----+-----+-----+-----+ 2580
TTTGCAGTAAGTTAAACCCCTGCAAGCCAATTAGTGGACATTTTGTGGTGGCTTACGTT
K R H S I G D V R L I S C K T T T E C K -
GCTTTAATAGATCGAGGATATGATATATTGCACCCAAATTTGGTACTGGATTGTATAGCA
2581-----+-----+-----+-----+-----+ 2640

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Figure 6 (Continued)

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Figure 6 (Continued)

L P * R L S I R V E D A Q L Y S K D W P -

GTCAATTAACTTAAGGAAAAAT

3301 ----- 3323

CAGTTAATTGAATTCCTTTTCTA

V N * L R E K -

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